



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## In re Application of:

Akram et al.

**Serial No.:** 09/653,272

**Filed:** August 31, 2000

For: METHOD FOR USING DATA REGARDING MANUFACTURING PROCEDURES INTEGRATED CIRCUITS (IC'S) HAVE UNDERGONE, SUCH AS REPAIRS, TO SELECT PROCEDURES THE IC'S WILL UNDERGO, SUCH AS ADDITIONAL REPAIRS

**Confirmation No.: 4727** 

Examiner: S. Garland

**Group Art Unit: 2125** 

Attorney Docket No.: 2269-4181US

(96-0973.02/US)

#### NOTICE OF EXPRESS MAILING

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#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56 (b) exists.

## U.S. Patent Documents

U.S. Patent No.	Publication Date	<u>Patentee</u>
4,032,949	06/28/1977	Bierig
4,455,495	06/19/1984	Masuhara et al.
4,534,014	08/06/1985	Ames
4,667,403	05/26/1987	Edinger et al.
4,871,963	10/03/1989	Cozzi
4,954,453	09/04/1990	Venutolo
5,003,251	03/26/1991	Fuoco
5,110,754	05/05/1992	Lowrey et al.
5,235,550	08/10/1993	Zagar
5,256,562	10/26/1993	Vu et al.
5,256,578	10/1993	Corley et al.
5,296,402	03/22/1994	Ryou
5,345,110	09/06/1994	Renfro et al.
5,352,945	10/04/1994	Casper et al.
5,355,320	10/1994	Erjavic et al.
5,424,652	06/13/1995	Hembree et al.
5,428,311	06/27/1995	McClure
5,440,240	08/1995	Wood et al.
5,477,493	12/19/1995	Danbayashi
5,504,369	04/1996	Dasse et al.
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# Serial No. 09/653,272

5,516,028	05/14/1996	Rasp et al.
5,537,325	07/1996	Iwakiri et al.
5,538,141	07/23/1996	Gross, Jr. et al.
5,539,235	07/23/1996	Allee
5,563,832	10/08/1996	Kagami
5,570,293	10/1996	Tanaka et al.
5,581,510	12/03/1996	Furusho et al.
5,590,069	12/31/1996	Levin
5,600,171	02/04/1997	Makihara et al.
5,603,412	02/18/1997	Gross, Jr. et al.
5,606,193	02/25/1997	Ueda et al.
5,617,366	04/01/1997	Yoo
5,619,469	04/08/1997	Joo
5,625,816	04/1997	Burdick et al.
5,726,074	03/1998	Yabe
5,764,650	06/1998	Debenham
5,787,190	07/1998	Peng et al.
5,801,965	09/1998	Takagi et al.
5,828,778	10/1998	Hagi et al.
5,844,803	12/1998	Beffa
5,856,923	01/1999	Jones et al.
5,865,319	02/02/1999	Okuda et al.
5,867,505	02/1999	Beffa
5,889,674	03/1999	Burdick et al.
5,895,962	04/1999	Zheng et al.
5,915,231	06/1999	Beffa
5,963,881	10/1999	Kahn et al.
5,991,699	11/1999	Kulkarni et al.

# Serial No. 09/653,272

6,000,830	12/1999	Asano et al.
6,018,686	01/2000	Orso et al.
6,049,624	04/2000	Wilson et al.
6,055,463	04/25/2000	Cheong et al.
6,072,574	06/2000	Zeimantz
6,075,216	06/13/2000	Nakamura et al.
6,100,486 (3037.1)	08/2000	Beffa
6,138,256	10/2000	Debenham
6,147,316 (3037.2)	11/14/2000	Beffa
6,148,307	11/2000	Burdick et al.
6,190,972 B1	02/20/2001	Zheng et al.
6,194,738 B1	02/27/2001	Debenham et al.
6,219,810	04/2001	Debenham
6,226,394	05/2001	Wilson et al.
6,259,520 B1	07/2001	Zeimantz
6,307,171 B1 (3037.4)	10/23/2001	Beffa
6,350,959 B1 (3037.3)	02/26/2002	Beffa
6,365,421 B2	04/02/2002	Debenham et al.
6,365,860 B1 (3037.6)	04/02/2002	Beffa
6,365,861 B1 (3037.5)	04/02/2002	Beffa
6,373,011 B1 (3037.7)	04/16/2002	Beffa
6,373,566 B2	04/2002	Zeimantz
6,400,840	06/2002	Wilson et al.
6,427,092	07/2002	Jones et al.
6,437,271 B1 (3037.9)	08/20/2002	Beffa
6,441,897 B1	08/2002	Zeimantz
6,504,123 (3037.8)	01/2003	Beffa
6,529,793	03/2003	Beffa

#### Serial No. 09/653,272

6,588,854	07/2003	Wilson et al.
6,636,068	10/2003	Farnworth
6.703.573 B2	03/09/2004	Beffa

### Foreign Patent Documents

Document No.	Publication Date	Patentee
JP 58050728 A	03/25/1983	Mitsubishi Electric Corp.
JP 58060529 A	04/11/1983	Mitsubishi Electric Corp.
JP 61120433 A	06/07/1986	Toshiba Corp.
JP 05013529 A	01/22/1993	NEC Kyushu Ltd.
JP 10104315 A	04/24/1998	NEC Corp.
SU 1151333 A	04/23/1985	Tsvetnoj Metallurgii

Applicants offer to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Supplemental Information Disclosure Statement is believed to be filed before the mailing date of the first Office Action on the merits subsequent to the filing of an RCE in the above-identified application.

Respectfully submitted,

James R. Duzan

Registration No. 28,393

Attorney for Applicant(s)

TRASKBRITT P.O. Box 2550

Salt Lake City, Utah 84110-2550

Telephone: 801-532-1922

Date: August 16, 2004

JRD/ps:dh

Enclosures: Form PTO-1449

Copy of documents cited

Document in ProLaw

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### "INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional) 2269-4181US (96-0973.02/US)

Application Number 09/653,272

Applicant Akram et al.

Filing Date August 31, 2000

Group Art Unit 2125

#### **U.S. PATENT DOCUMENTS** EXAMINER INITIAL FILING DATE IF APPROPRIATE DOCUMENT NUMBER DATE NAME CLASS SUBCLASS 4,032,949 06/28/1977 Bierig 4,455,495 06/19/1984 Masuhara et al. 4,534,014 08/06/1985 **Ames** 4,667,403 05/26/1987 Edinger et al. 4,871,963 10/03/1989 Cozzi 4,954,453 09/04/1990 Venutolo 03/26/1991 5,003,251 Fuoco 5,110,754 05/05/1992 Lowrey et al. 5,235,550 08/10/1993 Zagar 5,256,562 10/26/1993 Vu et al. 5,256,578 10/1993 Corley et al. **FOREIGN PATENT DOCUMENTS** DOCUMENT NUMBER SUBCLASS DATE CLASS APPLICANT YES JP 58050728 A 03/25/1983 Mitsubishi Electric Corp. JP 58060529 A 04/11/1983 Mitsubishi Electric Corp. X JP 61120433 A 06/07/1986 Toshiba Corp. JP 05013529 A 01/22/1993 NEC Kyushu Ltd. х 04/24/1998 JP 10104315 A NEC Corp. OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) DATE CONSIDERED **EXAMINER**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if

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## NINFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

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2269-4181US	
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Group Art Unit 2125

#### **U.S. PATENT DOCUMENTS** FILING DATE IF APPROPRIATE EXAMINER DOCUMENT NUMBER DATE CLASS SUBCLASS NAME INITIAL 5,296,402 03/22/1994 Ryou 09/06/1994 5,345,110 Renfro et al. 5,352,945 10/04/1994 Casper et al. 5,355,320 10/1994 Erjavic et al. 5,424,652 06/13/1995 Hembree et al. 5,428,311 06/27/1995 McClure 5,440,240 08/1995 Wood et al. 5,477,493 12/19/1995 Danbayashi 5,504,369 04/1996 Dasse et al. 05/14/1996 5,516,028 Rasp et al. 5,537,325 07/1996 lwakiri et al. FOREIGN PATENT DOCUMENTS Translation DOCUMENT NUMBER DATE COUNTRY CLASS **SUBCLASS** YES NO SU 1151333 A 04/23/1985 Tsvetnoj Metallurgii OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) **DATE CONSIDERED EXAMINER**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if

(2-92)

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Group Art Unit 2125

	T	U.S.	PATENT DOCUMENTS	<del></del>			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DA	
	5,538,141	07/23/1996	Gross, Jr. et al.			<u> </u>	
	5,539,235	07/23/1996	Allee			_	
	5,563,832	10/08/1996	Kagami	·			_
	5,570,293	10/1996	Tanaka et al.	<u> </u>			
	5,581,510	12/03/1996	Furusho et al.				
	5,590,069	12/31/1996	Levin				
	5,600,171	02/04/1997	Makihara et al.	<u>.</u>			
	5,603,412	02/18/1997	Gross, Jr. et al.				
	5,606,193	02/25/1997	Ueda et al.			<u> </u>	
	5,617,366	04/01/1997	Yoo			<u> </u>	
	5,619,469	04/08/1997	Joo		<u></u>		
,		FOREIG	ON PATENT DOCUMENTS	S	<u>-</u>		
	DOCUMENT		COUNTRY	01.455	CURCI ACC	Trans	slation
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EXAMINE		0	THER DOCUMENTS  DATE CONSIDER		g Author, Title, Da		Pages, E

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## INFORMATION DISCLOSURE CITATION IN AN APPLICATION

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Group Art Unit 2125

		U.S.	PATENT DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIAT	
	5,625,816	04/1997	Burdick et al.				
	5,726,074	03/1998	Yabe		<u></u>		
	5,764,650	06/1998	Debenham				
	5,787,190	07/1998	Peng et al.				
	5,801,965	09/1998	Takagi et al.				
	5,828,778	10/1998	Hagi et al.				
	5,844,803	12/1998	Beffa				
	5,856,923	01/1999	Jones et al.				
	5,865,319	02/02/1999	Okuda et al.				
_	5,867,505	02/1999	Beffa				
	5,889,674	03/1999	Burdick et al.				
		FOREIG	N PATENT DOCUMENTS	3			
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS		slation
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# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

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Group Art Unit 2125

#### **U.S. PATENT DOCUMENTS** FILING DATE IF APPROPRIATE EXAMINER DOCUMENT NUMBER DATE NAME CLASS SUBCLASS INITIAL 5,895,962 04/1999 Zheng et al. 06/1999 Beffa 5,915,231 5,963,881 10/1999 Kahn et al. 5,991,699 11/1999 Kulkarni et al. 6,000,830 12/1999 Asano et al. 6,018,686 01/2000 Orso et al. 6,049,624 04/2000 Wilson et al. 04/25/2000 6,055,463 Cheong et al. 6,072,574 06/2000 Zeimantz 6,075,216 06/13/2000 Nakamura et al. 6,100,486 08/2000 Beffa FOREIGN PATENT DOCUMENTS Translation DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS YES NO **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.) **DATE CONSIDERED EXAMINER** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if

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## INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optiona
2269-4181US
(96-0973.02/US)

**Application Number** 09/653,272

Applicant Akram et al.

Filing Date August 31, 2000

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Group Art Unit 2125

#### **U.S. PATENT DOCUMENTS** EXAMINER FILING DATE DOCUMENT NUMBER DATE CLASS SUBCLASS NAME INITIAL IF APPROPRIATE 10/2000 6,138,256 Debenham 6,147,316 11/14/2000 Beffa 6,148,307 11/2000 Burdick et al. 6,190,972 B1 02/20/2001 Zheng et al. 6,194,738 B1 02/27/2001 Debenham et al. 6,219,810 04/2001 Debenham 6,226,394 05/2001 Wilson et al. 6,259,520 B1 07/2001 Zeimantz 10/23/2001 6,307,171 B1 Beffa 6,350,959 B1 02/26/2002 Beffa 6,365,421 B2 04/02/2002 Debenham et al. FOREIGN PATENT DOCUMENTS Translation DOCUMENT SUBCLASS DATE COUNTRY CLASS NUMBER YES NO **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER DATE CONSIDERED** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if

Sheet 7 of 7

**Application Number** 

Group Art Unit 2125

FILING DATE
IF APPROPRIATE

09/653,272

SUBCLASS

CLASS

Docket Number (Optional) Form PTO-1449 2269-4181US INFORMATION DISCLOSURE CITATION (96-0973.02/US) IN AN APPLICATION Applicant Akram et al. (Use several sheets if necessary) Filing Date August 31, 2000 **U.S. PATENT DOCUMENTS** EXAMINER DOCUMENT NUMBER DATE NAME INITIAL 6,365,860 B1 04/02/2002 Beffa 6,365,861 B1 04/02/2002 Beffa 04/16/2002 Beffa 6,373,011 B1 6,373,566 B2 04/2002 Zeimantz 6,400,840 06/2002 Wilson et al. 6,427,092 07/2002 Jones et al. 6,437,271 B1 08/20/2002 Beffa

08/2002

01/2003

03/2003

07/2003

10/2003

03/09/2004

6,441,897 B1

6,504,123

6,529,793

6,588,854

6,636,068

6,703,573 B2

## FOREIGN PATENT DOCUMENTS

Zeimantz

Beffa

Beffa

Wilson et al.

Farnworth

Beffa

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
					YES	NO
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#### **OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages, Etc.)

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DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication t the applicant.